

REVISED MAY 2008

APEX ENGINEERING PRODUCTS CORPORATION

1241 Shoreline Drive

Aurora, IL 60504

Phone Number: 630-820-8888 Fax: 630-820-8886

**For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night**

**DOMESTIC NORTH AMERICA 800-424-9300
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION _____

Trade Name

RYDALL DD (pronounced: *rid-all, D.D.*)

Manufacturer Information

Apex Engineering Products Corporation, established 1942
1241 Shoreline Drive
Aurora, Illinois 60504

2. COMPOSITION, INFORMATION OR INGREDIENTS _____

Formula

Proprietary, confidentiality required

Chemical Family

Biodegradable Degreaser / Cleaner

<u>Chemical and Common Name</u>	<u>C.A.S.</u>	<u>Percent</u>	<u>TLV (p.p.m.)</u>
Citrus Terpenes	94266-47-4	5-20	
Proprietary mixture		20-55	
Water	7732-18-5	balance	

RYDALL DD is combustible, which is defined as having a flash point between 100°F and 200°F. Combustible materials are hazardous according to OSHA Hazard Communication Standard (29CFR1910.1200). This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.

3. HAZARDOUS IDENTIFICATION _____

Eye Contact:

This product may cause redness or irritation to the eyes.

Skin Contact:

This product may cause slight redness. Prolonged or repeated exposure may cause drying of the skin.

Inhalation:

May cause nose, throat, and respiratory tract irritation, coughing or headaches.

Ingestion: Not likely to be toxic, but may cause vomiting, headache, or other medical problems.

HMIS: Health: 1 Flammability: 2 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: Remove contact lenses at once. Flush eyes with water for at least 15 minutes. If irritation persists get medical attention.

Skin Contact: Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

Inhalation: If symptoms of overexposure are experienced, move to fresh air. If symptoms persist, seek medical attention.

Ingestion: Seek medical attention immediately. Do not induce vomiting. Rinse mouth with water. Do not administer anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, foam or dry chemical. Caution: Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere.

Unsuitable Extinguishing Media: Water.

Products of Combustion: Forms acrid fumes, carbon monoxide, and carbon dioxide.

Protection for Firefighters: Vapors may be irritating to eyes, skin and respiratory tract. Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Product is slippery when spilled. Isolate the hazard area. Wear appropriate personal protective equipment.

Procedures for cleanup: Eliminate all ignition sources. Use equipment rated for use around combustible materials. Oil soaked rags may spontaneously combust; place in appropriate container.

7. HANDLING AND STORAGE

Handling Procedures: Keep away from heat, sparks, and flame. Open container slowly to release pressure caused by temperature variations. Do not allow this material to come in contact with eyes. Use in well ventilated areas.

Storage Conditions: Store in well ventilated area. Storage temperature should not exceed the flash point for extended periods of time. Keep container closed when not in use. Do not cut, drill, grind, or weld on or near this container, residual vapors may ignite.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: For undiluted Citrus Terpenes, the 8h TWA=30 ppm.

Eye Protection: Use of safety glasses with side shields is recommended.

Skin Protection: Use of chemical resistant gloves is recommended.

Respiratory Protection: None required under normal use conditions.

Engineering Controls: Use with adequate ventilation or normal exhaust.

Other Equipment: As recommended by plant safety department. Aprons may be worn to prevent clothing from staining. Use good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue Liquid
Color:	Blue
Physical State:	Liquid
Odor:	Citrus aroma
pH:	Approximately 10
Viscosity:	Slightly thicker than Water
Specific Gravity (Water = 1):	0.971
Vapor Density (Air = 1):	Not tested
Vapor Pressure:	Not tested
Boiling Point:	>300°F.
Solubility in Water:	100%
Percent Volatility:	Not tested
Evaporation Rate (Water = 1):	>1

10. STABILITY AND REACTIVITY

Instability:	Stable under ordinary conditions of use and storage.
Conditions to Avoid:	Keep away from heat, sparks, and flames.
Incompatibility:	Strong oxidizing agents and strong acids.
Hazardous Decomposition:	Oxides of citrus terpenes, which can result from improper storage and handling, are known to cause skin sensitization.
Hazardous Polymerization:	To prevent oxidation, avoid long-term exposure to air.

11. TOXICOLOGICAL INFORMATION

Acute Data:	Citrus terpenes have been shown to have low oral toxicity and low dermal toxicity when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation when tested on mice.
Carcinogenicity:	None of the ingredients found in the solution are known carcinogens.

12. ECOLOGICAL INFORMATION

Environmental Toxicity:	No data at this time.
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13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with all applicable local, state, and federal laws. Dispose of used or unused product, and empty containers in accordance with the local, state, provincial, and federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Terpene Hydrocarbons, N.O.S.
Hazard Class:	3
Identification Number:	UN2319
Packing Group:	III
Label/Placard:	Exception Section 173.150(f) applies.
TDG, IMO, IATA Status:	Hazardous

15. REGULATORY INFORMATION

Global Inventories: This product is included in the following inventories: USA (TSCA), Canada (DSL), Europe (EINECS/ELINCS/Polymer/NLP), Australia (AICS), Korea (KECL), Philippines (PICCS), Japan (ENCS).

SARA Title III: Section 311/312/313 Categorization (40CFR 370): Considered non-reportable.

CERCLA Information (40CFR 302.4): Release of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or to state and local Emergency planning committees under the Superfund Amendments and Reauthorization Act).

United States: All components of this product are in compliance with the inventory listing requirements of U.S. Toxic Substance Control Act (TSCA Chemical Substance Inventory).

The United States FDA lists citrus terpenes as GRAS (Generally Recognized As Safe) in 21 CFR section 182.20 and 182.6.

16. OTHER INFORMATION

**FOR ADDITIONAL INFORMATION, PLEASE CONTACT OUR MANUFACTURING FACILITY AT
630-820-8888 OR OUR WEBSITE AT www.ApexEngineeringProducts.com.**

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